

## WEATHER OF THE ATLANTIC AND PACIFIC OCEANS

[The Marine Division, W. F. McDonald in charge]

## NORTH ATLANTIC OCEAN

By F. A. YOUNG

*Atmospheric pressure.*—The North Atlantic HIGH was well developed during July with the exception of the first three and last five days, while the Icelandic LOW was somewhat more active than usual, except for brief periods when the pressure was slightly above normal.

While there were a number of low-pressure areas over the northern steamer lanes, they were, as a rule, of comparatively slight intensity, and moderate conditions with slight pressure gradients prevailed over the ocean south of the 50th parallel during the greater portion of the month.

TABLE 1.—Averages, departures, and extremes of atmospheric pressure (sea level) at selected stations for the North Atlantic Ocean and its shores, July, 1932

Stations	Average pressure	Departure	High-est	Date	Low-est	Date
	<i>Inches</i>	<i>Inch</i>	<i>Inches</i>		<i>Inches</i>	
Julianehaab, Greenland	29.99	-----	30.24	19	29.59	7
Reykjavik, Iceland	29.73	-0.11	30.14	17	29.02	2
Lerwick, Shetland Islands	29.76	-0.04	30.14	12	29.31	1
Valencia, Ireland	29.91	-0.07	30.33	19	29.27	1
Lisbon, Portugal	30.03	+0.01	30.16	20, 21	29.91	15
Madeira	30.08	+0.03	30.17	13	29.97	24
Horta, Azores	30.33	+0.06	30.50	22	29.97	29
Belle Isle, Newfoundland	29.74	-0.13	30.08	9	29.18	4
Halifax, Nova Scotia	29.78	-0.17	30.04	26	29.28	3
Nantucket	29.82	-0.16	30.05	26	29.25	2
Hatteras	29.93	-0.08	30.17	10	29.52	2
Bermuda	30.03	-0.15	30.16	27, 28	29.80	2
Turks Island	30.03	-0.04	30.10	5, 6	29.96	17
Key West	30.01	-0.02	30.14	6	29.88	17
New Orleans	29.99	-0.01	30.16	6	29.79	17
Cape Gracias, Nicaragua	29.89	-0.02	29.92	5, 20	29.84	18, 28

NOTE.—All data based on a. m. observations only, with departures compiled from best available normals related to time of observations except Nantucket, Hatteras, Key West, and New Orleans, which are 24-hour corrected means.

## OCEAN GALES AND STORMS, JULY, 1932

Vessel	Voyage		Position at time of lowest barometer		Gale began	Time of lowest barom-eter	Gale ended	Low-est bar-ometer	Direc-tion of wind when gale began	Direction and force of wind at time of lowest barometer	Direc-tion of wind when gale ended	Direction and high-est force of wind	Shifts of wind near time of lowest barometer
	From—	To—	Latitude	Longitude									
NORTH ATLANTIC OCEAN													
U. S. Lightship No. 80.	Anchored on Lookout Shoals.		34 18 N	76 24 W	July 1	8p., 1	July 2	Inches 29.73	SW----	SW, 8----	W-----	—, 8-----	SW-W.
Henri Jaspas, Belg. S. S.	Antwerp-----	New York-----	50 14 N	3 40 W	do-----	1a., 1-----	July 1	29.33	SSW----	SSW, 8----	W-----	SSW, 8-----	SSW-W.
Afoundria, Am. S. S.	Mobile-----	Liverpool-----	39 18 N	63 00 W	July 2	7a., 2-----	July 3	29.60	S-----	S, 7-----	SSW----	SSW, 9-----	S-SW.
Exmouth, Am. S. S.	Casablanca-----	New York-----	40 38 N	56 27 W	do-----	10a., 3-----	do-----	29.70	S-----	S, 8-----	SSW----	S, 9-----	S-SW.
Rochambeau, Fr. S. S.	Havre-----	do-----	50 45 N	22 30 W	July 3	8a., 3-----	July 4	29.35	NNW----	NNW, 8----	W-----	NNW, 8-----	WSW-NNW.
Berlin, Ger. S. S.	English Channel.	do-----	49 42 N	18 34 W	do-----	4p., 3-----	do-----	29.26	SSW----	WNW, 8----	NW-----	WNW, 9-----	SW-NW.
American Banker, Am. S. S.	London-----	do-----	45 08 N	40 40 W	July 7	2p., 7-----	July 7	29.79	SSW----	SW, —-----	NW-----	SSW, 8-----	SW-NNW.
Lord Kelvin, Br. Cable S. S.	Halifax-----	Cable Grounds.	50 29 N	32 40 W	July 11	Noon, 11-----	July 11	29.96	SSE----	S, 8-----	SW-----	S, 8-----	Steady.
Bergensfjord, Nor. S. S.	New York-----	Bergen-----	60 00 N	4 30 E	July 17	4a., 18-----	July 18	29.56	N-----	N, 9-----	N-----	N, 9-----	Do.
Astrida, Am. S. S.	Pernambuco-----	Antwerp-----	38 15 N	13 35 W	July 18	4a., 19-----	July 20		N-----	N, 8-----	N-----	N, 8-----	Do.
NORTH PACIFIC OCEAN													
Takaoka Maru, Jap. S. S.	Yokohama-----	San Francisco-----	38 50 N	125 00 W	July 4	8a., 5-----	July 5	30.00	N-----	NW, —-----	NW-----	N, 8-----	
President Taft, Am. S. S.	do-----	Victoria-----	49 45 N	168 50 W	July 7	4p., 7-----	July 8	30.10	SSE----	SE, 6-----	S-----	S, 8-----	SSE-S.
Nevada, Am. S. S.	Hong Kong-----	San Francisco-----	23 45 N	118 15 E	July 28	9p., 28-----	July 29	28.96	NNW----	Calm-----	SE-----	N, 10-----	NNW-N-SE.
SOUTH PACIFIC OCEAN													
West Cusseta, Am. M. S.	Long Beach-----	Cape Town-----	56 08 S	76 00 W	July 7	8a., 7-----	July 8	29.11	SSE----	SSE, 10-----	S-----	SSE, 10-----	Steady.
SOUTH ATLANTIC OCEAN													
Siljestad, Nor. M. S.	Gulong, Australia.	Las Palmas-----	34 08 S	18 05 E	July 2	6p., 2-----	July 3	29.86	NW----	NW, 10-----	NW-----	NW, 11-----	Steady.
West Cusseta, Am. M. S.	Long Beach-----	Cape Town-----	42 56 S	31 05 W	July 16	8a., 16-----	July 16	29.51	WNW----	W, 10-----	SW-----	WSW, 10-----	W-WSW.
Do	do-----	do-----	41 10 S	12 52 W	July 19	2p., 19-----	July 19	29.82	N-----	NNW, 9-----	NW-----	NNW, 9-----	NNW-NW.
INDIAN OCEAN													
City of Rayville, Am. M. S.	Colombo-----	New York-----	12 30 N	54 30 E	July 7	4p., 9-----	July 10	29.48	SW----	SW, 8-----	S-----	SW, 9-----	Steady.

*Cyclones and gales.*—July was another unusually quiet month over the North Atlantic Ocean. Gale reports have been received from only 10 vessels, the highest force of the wind being 9, and all occurred prior to the 20th. See table of Ocean Gales and Storms.

*Fog.*—Fog was again unusually prevalent over the western section of the ocean, and the number of days on which it was reported in different localities is as follows: Over the Grand Banks, from 18 to 25 days; west of the fiftieth meridian, between the fortieth and forty-fifth parallels, from 15 to 17 days; along the American coast between the thirty-fifth and fortieth parallels, on 3 days; along the northern steamer lanes, east of the forty-fifth parallel, from 3 to 12 days.

*Transatlantic aviation.*—James Mattern and Bennett Griffin left New York for Harbor Grace, Newfoundland at 4 a. m. (E. S. T.) July 5. They took off from Harbor Grace at 5.02 p. m. on the same day, making a successful crossing, and were sighted over Ireland 11½ hours later, on July 6. Charts VIII and IX show the conditions on the 5th and 6th, respectively.